

PRODUCT DATA SHEET

Sika® Bonding Primer

TWO-COMPONENT WATERBASED EPOXY PRIMER

PRODUCT DESCRIPTION

Sika® Bonding Primer is a two-component, water-based epoxy primer to consolidate substrates and enhance the adhesion of Sikalastic® RoofPRO Systems

USES

Versatile primer for use with:

- Sikalastic® RoofPRO Systems
- Sikagard® coatings
- Suitable for use on concrete, masonry, tiles, insulation foams, bituminous surfaces, plaster, cementitious renders, screeds and mortars.

CHARACTERISTICS / ADVANTAGES

- Fast curing - overcoat possible after 1–2 hours
- Long pot life - up to 12 hours
- Low odour - water-based product
- Low VOC
- Consolidates dusty or friable surfaces
- Uniforms the absorbency of the substrate
- Enhances adhesion to a broad range of substrates
- Easy application by brush or roller

PRODUCT INFORMATION

Chemical Base	Epoxy, waterborne and polyamine curative
Packaging	Bonding Primer Kit: 1 gal. (3.8 L), 5 gal. (19 L) Part A: 0.8 gal. (3 L), 4 gal. (15 L) Part B: 0.2 gal. (0.7 L), 1 gal. (3.8 L)
Appearance / Color	Milky green liquid resin
Shelf Life	24 months from date of production
Storage Conditions	The product must be stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 41 °F (5 °C) and 77 °F (25 °C). Higher storage temperatures may reduce shelf life of product. Reference shall also be made to the storage recommendations within the safety data sheet.
Density	~1.03 kg/l (73 °F, 23 °C)

Solid Content	15 % by volume	(ASTM D-2697)
Volatile organic compound (VOC) content	12.5 g/l	(ASTM D-2369-81)

TECHNICAL INFORMATION

Service Temperature	-22–176 °F (-30–80 °C) intermittent.
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APPLICATION INFORMATION

Mixing Ratio	Component A : Component B = 4:1 (by volume)
Coverage	350 ft ² /gal. on non-absorbent smooth substrates. 300 ft ² /gal. on prepared, dry concrete. 200 ft ² /gal. on absorbent gypsum and cementitious cover boards. Note: Rough, porous, or absorbent surfaces will require additional primer and will reduce yield.
Ambient Air Temperature	41 °F (5 °C) min. / 104 °F (40 °C) max.
Relative Air Humidity	80 % R.H. max.
Dew Point	Beware of condensation. The substrate and uncured coating must be ≥ 5 °F (3 °C) above dew point.
Substrate Temperature	41 °F (5 °C) min. / 140 °F (60 °C) max.
Substrate Moisture Content	≤ 4 % moisture content Test method: Sika®-Tramex meter No rising moisture according to ASTM (Polyethylene-sheet).
Pot Life	12 hours

Waiting / Recoat Times

Before applying any recommended Sikalastic® RoofPRO resin on Sika® Bonding Primer, allow:

Substrate temperature	Minimum waiting time	Maximum waiting time
50 °F (10 °C)	4 hours approx.	7 days
68 °F (20 °C)	2 hours approx.	7 days
86 °F (30 °C)	1 hour approx.	7 days

Before applying Sikagard® products on Sika® Bonding Primer allow:

Substrate temperature	Minimum waiting time	Maximum waiting time
50 °F (10 °C)	24 hours approx.	7 days
68 °F (20 °C)	8 hours approx.	7 days
86 °F (30 °C)	6 hours approx.	7 days

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Ideally, membrane resin will be applied within 24 hours of primer application. This is required for applications in tropical/subtropical environments to avoid UV-related primer deterioration. Maximum primer exposure is 7 days. Primer exposed longer than 7 days, and primer exposed to water during curing and exhibiting a chalky appearance, must be reprimed. Deteriorated primer must be mechanically removed before primer reapplication

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

All substrate surfaces shall be clean, dry and sound. Acceptable substrates include: sound concrete and masonry, wood and plywood, mineralized asphaltic cap sheet, sprayed polyurethane foam, gypsum and cementitious cover boards, and coated glass-faced polyisocyanurate foam boards. Reference separate System Data Sheet for specific surface preparation requirements.

SUBSTRATE PREPARATION

All surfaces to be coated should be thoroughly cleaned by conventional means.

Inspect the substrate.

Spalling, flaking or damaged areas should be repaired using compatible materials to match surroundings or replaced as necessary.

If in doubt apply a test area first.

Tiles have to be prepared mechanically, glazing has to be removed.

Grinding may be necessary to level the surface.

For detailed information regarding substrate quality / preparation and primer chart please refer to Sikalastic® RoofPRO Application Manual.

MIXING

Mix ratio is 4:1 (A:B) by weight and volume. Add Part B into Part A and mix with stir stick or mechanical mixer (Jiffy) at low speed. Avoid adding air into the primer during mixing. When fully mixed, the primer should be free from streaks and of a uniform light green color.

Do not break down kits into smaller quantities.

APPLICATION

Apply by brush or phenolic resin core roller at the recommended rate. Correct amount of primer will saturate the substrate and leave a slight film on the substrate top surface. Apply evenly without puddling.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be removed mechanically.

LIMITATIONS

- To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.
- Minimum ambient and substrate temperature during application and curing of material is 41°F (5°C); maximum is 95°F (35°C). Surface temperatures must be no higher than 140°F (60°C).
- Do not apply on substrates with moisture content

greater than 4% by weight, measured by Tramex® Concrete Moisture Encounter Meter.

- Minimum age of concrete must be 21-28 days depending on curing and drying conditions.
- Do not thin with solvents.
- Do not store materials outdoors exposed to sunlight and moisture for prolonged periods.
- Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure. This condition may be checked using ASTM D-4263 (Polyethylene Sheet method).
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface.
- Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.
- On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pinholing may occur.
- Precautions should be taken to prevent vapors and/or odors from entering the building/structure, including but not limited to turning off and sealing air intake vents and throughwall air conditioners, and other means of vapor/odor ingress during application and cure. Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
- When applying over existing coatings or membranes compatibility and adhesion testing, subsequent approval by Technical Services is required.
- On grade concrete decks should not be covered with Sikalastic® membrane systems. Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete overlays should not be covered with Sikalastic® membrane systems without additional deck evaluation and subsequent approval by Technical Services.
- Not recommended for metal substrates.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must

read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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